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APPLICATION NO.	1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/019.000	04/22/2002	Gerard Martin	BE 4035	8044		
	7500 01/14/2004			EXAMI	INER	
466 YOUNG &	7590 THOM	***************************************		GAKH, YI	GAKH, YELENA G	
745 SOUTH 23RD STREET 2ND FLOOR				ART UNIT PAPER NUM		
ARLINGTON, VA 22202		22202		1743		

DATE MAILED: 01/14/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.	Applicant(s)	
10/019,000	MARTIN ET AL:	
xaminer	Art Unit	
Yelena G. Gakh, Ph.D.	1743	
the source shoot with	the correspondence ad	dress

Office Action Summary	Examiner	Art Unit							
	Yelena G. Gakh, Ph.D.	1743							
The MAILING DATE of this communication app	ears on the cover sheet with the	correspondence a	idress						
Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period Fallure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be y within the statutory minimum of thirty (30) d will apply and will expire SIX (6) MONTHS for	timely filed ays will be considered time on the mailing date of this U.S.D. (35 U.S.C. § 133).	aly. communication.						
Status									
1) Responsive to communication(s) filed on 26 E	ecember 2001.								
2a)☐ This action is FINAL . 2b)⊠ This	action is non-final.								
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. 									
Disposition of Claims									
4) Claim(s) <u>1-3</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed.	own from consideration.		*						
6) Claim(s) <u>1-3</u> is/are rejected.									
7) Claim(s) 1-3 is/are objected to. 8) Claim(s) are subject to restriction and/	or election requirement.		*						
Application Papers									
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
	Examiner. Note the diagonour of								
Priority under 35 U.S.C. §§ 119 and 120	an priority under 35 U.S.C. & 11	9(a)-(d) or (f).							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. application from the international Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification Data Sheet. 37 CFR 1.78.									
Attachment(s) 1) ⊠ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawling Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449) Paper No(s	5) Notice of Infor	mary (PTO-413) Paper mal Patent Application	No(s) (PTO-152)						

Application/Control Number: 10/019,000

Art Unit: 1743

DETAILED ACTION

Specification

The specification is objected to, because of the following informalities: 1.

In the Supplemental Preliminary Amendment the square sign is replaced with "0/00", while it should be replace with δ percentage " $^{0}/_{00}$ ". Correction is required.

"NMR-FINS" should be changed to "NMR-SNIF" on page 4, line 13. Also, the complete name of the method, "Specific Natural Isotope Fractionation NMR" should accompany the abbreviation in the beginning.

Claim Objections

Claims 1-3 are objected to as not being written according to US practice: the preamble of 2. the claims should be concluded with open or closed expressions "comprising of" or "consisting of', and the body of the claims should list the method steps.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all 3. obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- The factual inquiries set forth in Graham v. John Deere Co., 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - Determining the scope and contents of the prior art. 1.
 - Ascertaining the differences between the prior art and the claims at issue. 2.
 - Resolving the level of ordinary skill in the pertinent art. 3.

Application/Control Number: 10/019,000

Art Unit: 1743

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4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
 - 6. Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over any of Martin et al. (JACS, 1982), Caer et al. (Anal. Chem., 1991), Vallet et al. (J. Sci. Food Agric., 1991), Hanneguelle et al. (J. Agric. Food Chem., 1992), Martin et al. (J. Agric. Food Chem., 1996) or Jamin et al. (Plant, Cell and Environment, 1997).

Martin, Caer, Vallet, Hanneguelle, Martin or Jamin teach a method for determining the origin of natural or synthetic products (anetholes, vanillin, amino acids, essential oils containing linalool and linalyl acetate, maple syrup, nicotine from tobacco leaves, etc.) by measuring specific-site (SNIF-NMR) and/or total (mass spectrometry) isotope ratio for their metabolites and comparing them with data for reference compounds.

It would have been obvious for anyone of ordinary skill in the art to expand application of the method to complex molecules, because the fragmentation of molecules by their cleavage reflects the site-specific isotope ratio of original complex molecules, which is the basis of the method for determining the origin of the compounds, even closer than metabolites or derivatives.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yelena G. Gakh, Ph.D. whose telephone number is (571) 272-1257. The examiner can normally be reached on 9:30 am - 6:00 pm.

Application/Control Number: 10/019,000

Art Unit: 1743

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill A. Warden can be reached on (571) 272-1267. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Yelen Hab

Yelena G. Gakh, Ph.D. 1/5/04